



Printers'  
National  
Environmental  
Assistance  
Center

## Fact Sheet

**PNEAC**

[www.pneac.org](http://www.pneac.org)

1-888-US-PNEAC

**Chemical Table to Accompany the PNEAC Fact Sheet:**  
**[EPA Toxics Release Inventory \(TRI\) Compliance at Printing Facilities](#)**

Chemical	Where Found	CAS #	Reporting Threshold & Regulation							
			Section 302 (lbs)	Section 304 (lbs)	Section 312 (lbs)	Section 313 – Otherwise Used (lbs)	Section 313 – Manufactured (lbs)	Section 112R CAA RMP (lbs)	CERCLA 103 (Emergency Response - Spill) (lbs)	HA
Ammonia	Water-Based Inks and Coatings	7664-41-7	500	100	500	500	500	10,000	100	
Barium* (*Barium is regulated in some states. Check your state and local regulations)	Some Red Pigments	7440-39-3	N/A							

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Benzene (Including Benzene In Gasoline)	Trace (less than 0.1%) Contaminant In Some Cleaning Solvents Namely, Aromatic Hydrocarbon Blends	71-43-2	N/A	N/A	10,000	25,000	10,000	N/A	10	
n-Butyl alcohol	Flexo/Gravure Ink Solvent	71-36-3	N/A	N/A	10,000	25,000	10,000	N/A	5,000	
Cadmium & Compounds	Some Orange, Red, and Yellow Pigments	7440-43-9	100	N/A	10,000	25,000	10,000	N/A	10	
Chromium (Hexavalent) & Compounds	Film Cleaners, Some Fountain Solutions, Gravure Cylinder Preparation and Some Brown, Orange, and Red Pigments	7440-47-3	N/A	N/A	10,000	25,000	10,000	N/A	5,000	
Cobalt & Compounds	Sheetfed Offset Ink Catalyst For Drying	7440-48-4	N/A	N/A	10,000	25,000	10,000	N/A	N/A	

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Copper & Compounds	Some Blue and Green Pigments and Component In Some Water-Based Coatings	7440-50-8	N/A	N/A	10,000	25,000	10,000	N/A	5,000	
Cumene	Component In Some Cleaning Solvents Containing Aromatic Hydrocarbon Blends	98-82-8	N/A	N/A	10,000	25,000	10,000	N/A	5,000	Yes
Cyclohexane	Component In Some Cleaning Solvents Component In Spray Adhesive	110-82-7	N/A	N/A	10,000	25,000	10,000	15,000	1,000	
Dibutyl Phthalate	Plasticizer In Some Inks and Coatings	84-74-2	N/A	N/A	10,000	25,000	10,000	N/A	100	
Diethanolamine	Film Developer	111-42-2	N/A	N/A	10,000	25,2000	10,000	N/A	100	

[illegible]

[illegible]

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Diethylene Glycol Methyl Ether	Component In Some Cleaning Solvents Fountain Solution Additive - IPA Substitute Flexo/Gravure Water & Solvent-Based Inks Litho Plate Developers Component In Glass Cleaner	111-77-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Ethyl benzene	Component In Some Cleaning Solvents Containing Aromatic Hydrocarbon Blends Flexo/Gravure Water & Solvent-Based Inks	100-41-4	N/A	N/A	10,000	25,000	10,000	N/A	1,000	Yes

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Ethylene Glycol Dimethyl Ether	Component In Some Cleaning Solvents Fountain Solution Additive – IPA Substitute	110-71-4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Ethylene Glycol Butyl Ether	Component In Some Cleaning Solvents Fountain Solution Additive – IPA Substitute	111-76-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Ethylene Glycol Ethyl Ether Acetate or 2-Ethoxyethanol	Component In Some Cleaning Solvents Fountain Solution Additive – IPA Substitute	110-80-5	N/A	N/A	N/A	N/A	N/A	N/A	1,000	Yes
Ethylene Glycol Methyl Ether or 2-Methoxyethanol	Component In Some Cleaning Solvents Fountain Solution Additive – IPA Substitute	109-86-4	N/A	N/A	10,000	25,000	10,000	N/A	N/A	

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Ethyene Glycol Monomethyl Ether a.k.a. 2-Methoxyethanol	Component In Some Cleaning Solvents Fountain Solution Additive - IPA Substitute Flexo/Gravure Water & Solvent-Based Inks Litho Plate Developers Component In Glass Cleaner	109-86-4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Ethylene glycol propyl ether	Component In Some Cleaning Solvents Fountain Solution Additive - IPA Substitute Flexo/Gravure Water & Solvent-Based Inks Litho Plate Developers Component In Glass Cleaner	2807-30-9	N/A							



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Ethylene glycol	Fountain Solution Additive - IPA Substitute Component In Copper Plating Solution Flexo/Gravure Water & Solvent-Based Inks	107-21-1	N/A	N/A	10,000	25,000	100,000	N/A	5,000	
Formaldehyde	Some Film Developing Chemistry	50-00-0	500	100	10,000	25,000	10,000	15,000	100	
Hexane a.k.a. n-Hexane	Component In Some Cleaning Solvents Component In Film Cleaner Component In Spray Adhesive Flexo/Gravure Solvent-Based Inks	110-54-3	N/A	N/A	10,000	25,000	10,000	N/A	5,000	

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Hydrochloric Acid	Muratic Acid – Maintenance Area Component In Copper Plating Solution	7647-01-0	N/A	N/A	N/A	N/A	N/A	N/A	5,000	
Hydroquinone	Film Developing Chemistry	123-31-9	500 / 10,000	100	10,000	25,000	10,000	N/A	100	
Isophrone	Screen Printing Ink Solvent	78-59-1	N/A	N/A	N/A	N/A	N/A	N/A	5,000	
Lead	Some Ink Pigments	7439-92-1	N/A	N/A	100	100	100	N/A	10	
Lead Chromate	Some Yellow Pigments	7758-97-6	N/A	N/A	100	100	100	N/A	10	
Manganese & Compounds	Sheetfed Offset Ink Catalyst For Drying Some Red and White Pigments	7439-96-5	N/A	N/A	10,000	25,000	10,000	N/A	N/A	

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Methanol	Component In Some Cleaning Solvents Ink Jet Ink Solvent Component In Stay Open-Ink Drying Retardant Component In Compressed Propane Solvent In Some Adhesives Flexo/Gravure Solvent-Based Inks	67-56-1	N/A	N/A	10,000	25,000	10,000	N/A	5,000	Yes
Mercury	Thermostats, Tilt switches, gauges, thermometers, Lamps: UV, Mercury Vapor, Fluorescent, HID	N458	N/A	N/A	10	10	10	1	N/A	Yes

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Methyl Chloroform - 1,1,1-Trichloroethane	Component In Stay Open-Ink Drying Retardant Solvent In Some Adhesives Component In Some Cleaning Solvents Component In Various Maintenance Products	71-55-6	N/A	N/A	10,000	25,000	10,000	N/A	1,000	Yes
Methyl Ethyl Ketone	Component In Some Cleaning Solvents Ink Jet Ink Solvent Flexo/Gravure Solvent-Based Inks	78-93-3	N/A	N/A	10,000	25,000	10,000	N/A	5,000	Yes
Methyl Isobutyl Ketone	Component In Some Cleaning Solvents	108-10-1	N/A	N/A	10,000	25,000	10,000	N/A	5,000	

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Methylene Chloride	Component In Some Cleaning Solvents Copper Plating Solution Component In Blanket Fix Component In Film Cleaner	75-09-2	N/A	N/A	10,000	25,000	10,000	N/A	1,000	Yes
Naphthalene	Component In Some Cleaning Solvents Containing Aromatic Hydrocarbon Blends	91-20-3	N/A.	N/A	10,000	25,000	10,000	N/A	100	Yes
Nitric Acid	Component In Some Cleaners	7697-37-2	1,000	1,000	10,000	25,000	10,000	N/A	1,000	

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Perchloroethylene	Component In Film Cleaner Component In Some Lubricants Some Flexo Plate Developers Component in Spotting Fluids used by Screen Printing Industry	127-18-4	N/A	N/A	10,000	25,000	10,000	N/A	100	
Phosphoric Acid	Component In Fountain Solution Concentrate Component In Some Cleaning Solutions	7664-38-2	N/A	N/A	N/A	N/A	N/A	N/A	5,000	
Phenol	Some Film & Plate Developing Chemistry	108-95-2	500 / 10,000	1000	10,000	25,000	10,000	N/A	1,000	
Propylene Oxide	Component In Some Inks	75-56-9	10,000	100	10,000	25,000	10,000	10,000	100	
Sulfuric Acid	Battery Acid	7664-93-9	1000	1000	N/A	N/A	N/A	N/A	1,000	

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Toluene	Component In Some Cleaning Solvents Publication Rotogravure Ink Solvent	108-88-3	N/A	N/A	10,000	25,000	10,000	N/A	1,000	Yes
Toluene Diisocyanates	Flexo/Gravure Water & Solvent-Based Inks	26471-62-5	N/A	N/A	10,000	25,000	10,000	10,000	100	
Vinyl Acetate	Component In Some Adhesives	108-05-4	1,000	5,000	10,000	25,000	10,000	15,000	5,000	
Xylenes (isomers & mixture)	Component In Some Cleaning Solvents Component In Stay Open-Ink Drying Retardant Flexo/Gravure Ink Solvent	1330-20-7	N/A	N/A	10,000	25,000	10,000	N/A	100	Yes
Zinc & Compounds	Component In Water-Based Coatings Component In Some Lubricants Some White Pigments	7646-85-7	N/A	N/A	10,000	25,000	10,000	N/A	1,000	

The following chemicals are **not** to be included in the Glycol Ethers Category:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Material</u>
Diethylene Glycol	111466	Fountain Solution, Blanket/Roller Wash, Cleaning Solvent, or Ink Additives
Propylene Glycol Methyl Ether	108656	Fountain Solution, Blanket/Roller Wash, Cleaning Solvent, or Ink Additives
Dipropylene Monomethyl Ether	34590948	Fountain Solution, Blanket/Roller Wash, Cleaning Solvent, or Ink Additives
All Other Propylene Glycol Ethers		Fountain Solution, Blanket/Roller Wash, Cleaning Solvent, or Ink Additives